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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Telephone Number: (304) 926-0495  
Fax Number: (304) 926-0496

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

August 25, 2021

Kentucky Power Company  
1 Riverside Plaza, 22<sup>nd</sup> Floor  
Columbus, OH 43215

RE: WV/NPDES Permit Application No.  
WV0005304-Marshall County

Dear Sir or Madam:

Your forms for WV/NPDES Individual Permit have been found to be complete.

For your information, the public notice period prescribed in Title 47, Series 10, Section 12.1.b of the West Virginia Legislative Rules issued pursuant to Chapter 22, Article 11 commences on the 31st day of August, 2021 in the *Moundsville Daily Echo*.

Within twenty (20) days after publication of the public notice, you are required to send to the Office a certificate of publication. This should be sent to:

Director, Division of Water and Waste Management, DEP  
Permitting Section  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345  
Attention: Lori Devereux

Enclosed are copies of your draft permit, any required fact sheet and the public notice. If you have any questions, please do not hesitate to contact this office at 304-926-0495.

Sincerely,

Lori Devereux  
NPDES Team

Enclosures

cc: Environmental Inspector Supervisor

Promoting a healthy environment.

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT**

**PUBLIC NOTICE**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S, PUBLIC INFORMATION OFFICE, 601 57TH STREET, CHARLESTON SE, WEST VIRGINIA 25304-2345 TELEPHONE: (304) 926-0440.**

**APPLICATION FOR A WEST VIRGINIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT**

**Public Notice No.:** L-77-21

**Public Notice Date:** August 31, 2021

**Paper:** *Moundsville Daily Echo*

The following has applied for a WV NPDES Water Pollution Control Permit for this facility or activity:

**Appl. No.:** WV0005304

**Applicant:** KENTUCKY POWER COMPANY  
1 RIVERSIDE PLAZA  
22ND FLOOR  
COLUMBUS, OH 43215

**Location:** MOUNDSVILLE, MARSHALL COUNTY

**Latitude:** 39:49:27

**Longitude:** 80:47:18

**Receiving Stream:**

Conner Run of Fish Creek of Ohio River

**Activity:**

To operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated industrial wastes (process wastewater, metal cleaning waste, low volume wastewater, storm water) from Outlet 001 into the Ohio River near Milepoint 112.8. Also to operate and maintain treatment and disposal systems for the direct discharge of treated sanitary wastes from Outlet 003 into the Ohio River near Milepoint 112.8. Also to operate and maintain treatment and disposal systems for the direct discharge of treated stormwater and process wastes (miscellaneous and precipitator sumps) from Outlet 006 into the Ohio River near Milepoint 112.4. Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated storm water through Outlet 011 into approximately 0.15 miles from its mouth of Fish Creek, a tributary of the Ohio River. Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated storm water and process wastewater (coal pile runoff) through Outlet 012 into the Ohio River near Milepoint 111.9. Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of untreated and treated storm water respectively through Outlets 007, 008, 013, and 014 into the Ohio River near Milepoints 112.6, 112.8, 111.54, and 111.52 respectively. Also to acquire, construct, install, operate, and maintain a new 6.7-acre, lined Wastewater Pond Complex and adjacent tank-based chemical treatment system (organosulfide and polymer) to replace the Bottom Ash Wastewater Treatment Ponds at Outlet 001. Also to acquire, construct, install, operate, and maintain a new ultrafiltration unit (pressure filter) to provide additional treatment at the CPS Treatment Facility at new Outlet 201.

Tier 1 protection is afforded for the uses specified in 47 CSR 2, Section 6.

**Business conducted:**

Steam electric power generation from two 800 MW coal fired units.

**Implementation:**

NA

On the basis of review of the application, the "Water Pollution Control Act (Chapter 22, Article 11-8(a))," and the "West Virginia Legislative Rules," the State of West Virginia will act on the above application.

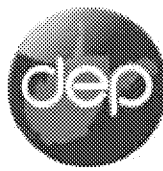
Any interested person may submit written comments on the draft permit and may request a public hearing by addressing such to the Director of the Division of Water and Waste Management within 30 days of the date of the public notice. Such comments or requests should be addressed to:

Director, Division of Water and Waste Management, DEP  
ATTN: Lori Devereux, Permitting Section  
601 57th Street SE  
Charleston, WV 25304-2345

The public comment period begins August 31, 2021 and ends September 30, 2021.

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and the telephone number of the writer and a concise statement of the nature of the issues raised. The Director shall hold a public hearing whenever a finding is made, on the basis of requests, that there is a significant degree of public interest on issues relevant to the Draft Permit(s). Interested persons may contact the public information office to obtain further information.

The application, draft permit and any required fact sheet may be inspected, by appointment, at the Division of Water and Waste Management Public Information Office, at 601 57th Street SE, Charleston, WV 25304-2345, between 8:00 a.m. and 4:00 p.m. on business days.



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT  
601 57TH STREET SE  
CHARLESTON, WV 25304-2345

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0005304

SUBJECT: Industrial Waste

ISSUE DATE:

EFFECTIVE DATE :

EXPIRATION DATE:

SUPERSEDES: Permit No. WV0005304

dated November 30, 2010

LOCATION: MOUNDSVILLE

(City)

Marshall

(County)

Upper Ohio River 2

(Drainage Basin)

See the next page for a list of Outlets.

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TO WHOM IT MAY CONCERN:

This is to certify that: KENTUCKY POWER COMPANY  
1 RIVERSIDE PLAZA  
22ND FLOOR  
COLUMBUS, OH 43215

**is hereby granted a West Virginia NPDES Water Pollution Control Permit to:**

operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated industrial wastes (process wastewater, metal cleaning waste, low volume wastewater, storm water) from Outlet 001 into the Ohio River near Milepoint 112.8.

Also to operate and maintain treatment and disposal systems for the direct discharge of treated sanitary wastes from Outlet 003 into the Ohio River near Milepoint 112.8.

Also to operate and maintain treatment and disposal systems for the direct discharge of treated stormwater and process wastes (miscellaneous and precipitator sumps) from Outlet 006 into the Ohio River near Milepoint 112.4.

Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated storm water through Outlet 011 into approximately 0.15 miles from its mouth of Fish Creek, a tributary of the Ohio River.

Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of treated storm water and process wastewater (coal pile runoff) through Outlet 012 into the Ohio River near Milepoint 111.9.

Also to operate and maintain treatment and disposal systems and best management practices for the direct discharge of untreated and treated storm water respectively through Outlets 007, 008, 013, and 014 into the Ohio River near Milepoints 112.6, 112.8, 111.54, and 111.52 respectively.

Also to acquire, construct, install, operate, and maintain a new 6.7-acre, lined Wastewater Pond Complex and adjacent tank-based chemical treatment system (organosulfide and polymer) to replace the Bottom Ash Wastewater Treatment Ponds at Outlet 001.



Also to acquire, construct, install, operate, and maintain a new ultrafiltration unit (pressure filter) to provide additional treatment at the CPS Treatment Facility at new Outlet 201.

Both the new Outlet 001 and 201 treatment systems shall be constructed per plans and specifications in "Mitchell Plant, 2021 NPDES Permit Renewal Application Update, NPDES Permit #WV0005304, January 8, 2021" prepared by American Electric Power Service Corporation.

**This permit is subject to the following terms and conditions :**

The information submitted on and with Permit Application No. WV0005304, dated the 22nd day of December 2014, additional information dated the 10th day of October 2014, the 16th day of September 2016, the 8th day of January 2021, 6th day of August 2021, the 9th day of August 2021, and the 10th day of August 2021 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein and with other conditions set forth in Sections A, B, C, D, and Appendix A.

**The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.**

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
001	39°49'20"	80°49'06"	OHIO RV	N/A	112.8
003	39°49'20"	80°49'06"	OHIO RV	N/A	112.8
005	39°50'13"	80°49'24"	OHIO RV -- No Monitoring Required	N/A	112
006	39°49'45"	80°49'15"	OHIO RV	N/A	112.4
007	39°49'33"	80°49'11"	OHIO RV	N/A	112.6
008	39°49'23"	80°49'07"	OHIO RV	N/A	112.8
011	39°49'11"	80°48'47"	FISH CK	0.15	N/A
012	39°50'18"	80°49'26"	OHIO RV	N/A	111.9
013	39°50'43"	80°49'18"	OHIO RV	N/A	111.54
014	39°50'42"	80°49'19"	OHIO RV -- No Monitoring Required	N/A	111.52
101	39°49'20"	80°49'06"	OHIO RV	N/A	N/A
106	39°49'45"	80°49'15"	OHIO RV	N/A	112.4
201	39°49'20"	80°49'06"	OHIO RV	N/A	N/A

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	2/month	Calculated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A) Interim (Initial to 07/01/2023)	N/A	N/A	N/A	N/A	21.6 Avg. Monthly	62.3 Max. Daily	mg/l	2/month	24 hr Composite
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	11 Avg. Monthly	37.6 Max. Daily	mg/l	2/month	24 hr Composite
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	2/month	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00620 - (Nitrogen Nitrate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00615 - (Nitrogen Nitrite) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A) Interim (Initial to 07/01/2023)	N/A	N/A	N/A	N/A	0.016 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 001, at the discharge to the Ohio River via 48" steel pipe via a weir.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 4 of 36  
Permit No.: WV0005304

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.016 Avg. Monthly	0.039 Max. Daily	mg/l	2/month	24 hr Composite
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00718 - (Cyanide, Weak Acid Dissocia (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 001, at the discharge to the Ohio River via 48" steel pipe via a weir.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 5 of 36  
Permit No.: WV0005304

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
01079 - (Silver, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.58 Avg. Monthly	1.2 Max. Daily	mg/l	1/month	24 hr Composite
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00951 - (Fluoride, Total) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
61425 - (Acute Tox - Ceriodaphnia Duf) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	0.5 Avg. Monthly	0.9 Max. Daily	TUa	1/6 months	24 hr Composite
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUa	1/year	24 hr Composite
34423 - (Methylene Chloride) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 001, at the discharge to the Ohio River via 48" steel pipe via a weir.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 6 of 36  
Permit No.: WV0005304

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.038 Avg. Monthly	0.072 Max. Daily	mg/l	2/month	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01007 - (Barium, Total (as Ba)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
32104 - (Bromoform) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
00999 - (Boron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
11123 - (Total Recov. Manganese) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Avg. Monthly	DEG.F	2/month	Insitu
Intake / Upstream Temperature. See Condition C.29									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 001, at the discharge to the Ohio River via 48" steel pipe via a weir.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Storm Water Runoff, Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
00011 - (Temperature, F) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	2/month	Insitu
Effluent Temperature									
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01220 - (Chromium, Hex. Diss.) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00552 - (Oil and Grease, Hexane EXTF) (Year Round) (ML-1) (RF-A) Interim (Initial to 07/01/2023)	N/A	N/A	N/A	N/A	10.8 Avg. Monthly	12.5 Max. Daily	mg/l	1/month	Grab
00552 - (Oil and Grease, Hexane EXTF) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	5.5 Avg. Monthly	7.5 Max. Daily	mg/l	1/month	Grab
00979 - (Cobalt, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
71870 - (Bromide) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 001, at the discharge to the Ohio River via 48" steel pipe via a weir.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.015 Max. Daily	mgd	1/quarter	measured
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-1) (RF-B)	3.75 Avg. Monthly	7.5 Max. Daily	Lbs/Day	N/A	30 Avg. Monthly	60 Max. Daily	mg/l	1/quarter	Grab
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	3.75 Avg. Monthly	7.5 Max. Daily	Lbs/Day	N/A	30 Avg. Monthly	60 Max. Daily	mg/l	1/quarter	Grab
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	200 Mon. Geo. Mean	400 Max. Daily	Cnts/100ml	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/quarter	Grab
00625 - (Nitrogen, Kjeldahl Total) (Year Round) (ML-1) (RF-B)	2.25 Avg. Monthly	4.5 Max. Daily	Lbs/Day	N/A	18 Avg. Monthly	36 Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 003, at the discharge to the Ohio River via a 6" HDPE pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 9 of 36  
Permit No.: WV0005304



**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, At the discharge from the stormwater pond via a 36" SLPE pipe to the Ohio River. Refer to Section C.14 for sampling requirements. [Samples shall be taken and reported for stormwater only discharges]

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 006 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01220 - (Chromium, Hex. Diss.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 006, At the discharge from the stormwater pond via a 36" SLPE pipe to the Ohio River. Refer to Section C.14 for sampling requirements. [Samples shall be taken and reported for stormwater only discharges]

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 007, at the discharge to the Ohio River via a 54" corrugated steel pipe to an open ditch.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 12 of 36  
Permit No.: WV0005304

**A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 007, at the discharge to the Ohio River via a 54" corrugated steel pipe to an open ditch.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 13 of 36  
Permit No.: WV0005304

**A.008 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective DAt e of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 008 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 008, At the discharge to the Ohio River via a 24" corrugated steel pipe to an open ditch prior to mixing with the wastewater from Outlet 001.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 14 of 36  
Permit No.: WV0005304

**A.008 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective DAt e of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 008 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 008, At the discharge to the Ohio River via a 24" corrugated steel pipe to an open ditch prior to mixing with the wastewater from Outlet 001.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 15 of 36  
Permit No.: WV0005304

**A.011 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 011 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 011, at the discharge from the 18" corrugated steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 16 of 36  
Permit No.: WV0005304

**A.011 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 011 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
70295 - (Solids, Total Dissolved (TDS)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01220 - (Chromium, Hex. Diss.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 011, at the discharge from the 18" corrugated steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 17 of 36  
Permit No.: WV0005304



**A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/6 months	measured
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	50 Max. Daily	mg/l	1/6 months	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 012, at weir located immediately prior to 36" diameter reinforced concrete discharge pipe for former Outlet 004 (WV0005291).

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 18 of 36  
Permit No.: WV0005304

**A.012 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 012 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 012, at weir located immediately prior to 36" diameter reinforced concrete discharge pipe for former Outlet 004 (WV0005291).

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 19 of 36

Permit No.: WV0005304

**A.013 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permti the permittee is authorized to discharge from Outlet Number(s) 013 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/6 months	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Mon. Geo. Mean	Rpt Only Max. Daily	Cnts/100ml	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/6 months	Grab
01074 - (Nickel, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 013, at discharge of 36" corrugated, steel pipe for former Outlet 006 (WV0005291)

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 20 of 36  
Permit No.: WV0005304

**A.013 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permti the permittee is authorized to discharge from Outlet Number(s) 013 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>		
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01220 - (Chromium, Hex. Diss.) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outlet 013, at discharge of 36" corrugated, steel pipe for former Outlet 006 (WV0005291)

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 21 of 36  
Permit No.: WV0005304

**A.101 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 101 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>		<u>Units</u>	<u>Other Units</u>					
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	Once/Daily Discharge	measured
Not to exceed 4 samples per month									
01042 - (Copper, Total (as Cu)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	1 Avg. Monthly	1 Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
01045 - (Iron, Total (as Fe)) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	1 Avg. Monthly	1 Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 101, at the discharge from metal cleaning tank prior to mixing with any other wastewaters.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 22 of 36

Permit No.: WV0005304

**A.106 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning Effective date of permit and lasting through midnight Expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 106 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>		<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	Once/Daily Discharge	Estimated
Not to exceed 4 samples per month									
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	100 Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
00400 - (pH) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	0.039 Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	1.2 Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	Once/Daily Discharge	Grab
Not to exceed 4 samples per month									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 106, Samples shall be taken at the same location as Outlet 006 only when non-stormwater (sump overflow, etc) is present. Residence time in the pond shall be accounted for. [Samples for stormwater only shall be reported via Outlet 006]

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 23 of 36  
Permit No.: WV0005304

A.106 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective date of permit and lasting through midnight Expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 106 (Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:							Monitoring Requirements		
Effluent Characteristic	Quantity		Units	Discharge Limitations		Units	Measurement Frequency	Sample Type	
				Other Units					
00552 - (Oil and Grease, Hexane EXTf (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only	20	mg/l	Once/Daily Discharge	Grab
					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 106, Samples shall be taken at the same location as Outlet 006 only when non-stormwater (sump overflow, etc) is present. Residence time in the pond shall be accounted for. [Samples for stormwater only shall be reported via Outlet 006]

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

**A.201 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 201 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>				
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>			
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A) Interim (Initial to 03/31/2025)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	measured
[Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit.									
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	measured
[On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.									
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-A) Interim (Initial to 03/31/2025)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
[Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit.									
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.084 Max. Daily	ug/l	1/month	24 hr Composite
[On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.									
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-A) Interim (Initial to 03/31/2025)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
[Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit.									
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	24 Avg. Monthly	58 Max. Daily	ug/l	1/month	24 hr Composite
[On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.									
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-A) Interim (Initial to 03/31/2025)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
[Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit.									
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	7 Avg. Monthly	15.5 Max. Daily	ug/l	1/month	24 hr Composite
[On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 201 - [Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit. [On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 25 of 36

Permit No.: WV0005304



**A.201 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:****Permit Limits**

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 201 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Such discharges shall be limited and monitored by the permittee as specified below:								Monitoring Requirements	
Effluent Characteristic	Discharge Limitations						Measurement	Sample	
	Quantity		Units	Other Units		Units	Frequency	Type	
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-A) Interim (Initial to 03/31/2025)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	24 hr Composite
[Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit.									
00630 - (Nitrite Plus Nitrate Nitrogen) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	2.5 Avg. Monthly	3.3 Max. Daily	mg/l	1/month	24 hr Composite
[On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 201 - [Until 3/31/2025] Samples shall be taken at the discharge from the FGD Systems Treatment Unit. [On 04/01/2025 and after] Samples shall be taken at the outlet of the Bio Reactor / Ultrafiltration Unit prior to mixing.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 26 of 36

Permit No.: WV0005304

## B. SCHEDULE OF COMPLIANCE

### 1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :

Jan 01, 2022:	<p>The permittee shall submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to complete closure of the West BAP of the former Bottom Ash Pond treatment system.</p> <p>The permittee shall also submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
May 01, 2022:	<p>Complete preliminary and detailed design for Outlet 001 to support bid packages, including civil, mechanical, and electrical engineering packages for the pond complex modifications.</p> <p>Also complete preliminary and detailed design for Outlet 201 to support bid packages, including civil, mechanical, and electrical/I&amp;C packages for the FGD treatment system.</p>
Jan 01, 2023:	<p>The permittee shall submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to complete closure of the West BAP of the former Bottom Ash Pond treatment system.</p> <p>The permittee shall also submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
Jul 01, 2023:	<p>Cease discharge of bottom ash transport wastewaters to the Outlet 001 combined wastewater system. Achieve compliance with the final effluent limitations in Section A.001 for TSS and O&amp;G.</p> <p>The permittee shall also submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
Feb 01, 2024:	<p>Complete closure (i.e. removal of the CCR material and decontamination of the CCR unit) and repurposing of East and West BAP of the former Bottom Ash Pond treatment system.</p> <p>The permittee shall also submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
Jul 01, 2024:	<p>The permittee shall submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
Jan 01, 2025:	<p>The permittee shall submit a progress report that identifies the status of the actions taken, as well as the actions to be taken, to come into compliance with the final effluent limitations for arsenic, mercury, nitrate+nitrite, and selenium at Outlet 201.</p>
Apr 01, 2025:	<p>Complete construction, performance testing and tuning for the ultrafiltration (pressure filter) FGD treatment system. Achieve compliance with final effluent limitations in Section A.201 for arsenic, mercury, nitrate+nitrite, and selenium.</p>

## **B. SCHEDULE OF COMPLIANCE**

- 1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

Jun 01, 2025: The permittee shall submit a detailed flow analysis and wastewater inventory at Outlet 001, 006, and 012. At a minimum, the flow analysis shall include quantitative (or qualitative engineering estimates where quantitative estimates are impractical) average and maximum flows for each waste type at each outlet (regulated vs non-regulated). The wastewater inventory shall at a minimum detail the status (source, dilute vs process) of each subtype of flow on the facilities' "Wastewater Flow Diagram" and/or "Proposed Wastewater Flow Diagram After ELG/CCR Projects" dated 12/1/2020. For Outlet 001 which has a documented mixture of process wastewater (per 40 CFR 432) and non-regulated, dilute wastewater input into the respective treatment systems a major modification shall be submitted to adjust/update TSS and O&G limitations in Section A.

- 2. Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

## Section C - Other Requirements

1. The permittee shall practice good housekeeping including maintaining the facility grounds. There shall be no scattered parts, equipment, debris, etc. Any and all drums shall be either stored in a covered area or kept upon pallets and properly sealed.
2. The issuance of this permit shall not relieve the permittee of the obligation to comply with any other federal, state or local laws. Compliance with this permit does not relieve the permittee from the obligation of Section 311 of the Clean Water Act. This permit does not authorize spills of hazardous substances/wastes from any permitted outlet into waters of the State. Such incidents are to be reported in accordance with Sections IV.1 and IV.2 of Appendix A of this permit.
3. Upon review of information submitted under terms and conditions of this permit, the permit may be modified to require additional effluent limitations/monitoring requirements and/or improved best management practices.
4. The permittee shall notify the Division of Water and Waste Management immediately when it becomes aware of any migration of any pollutant from any unpermitted source (such as contaminated groundwater and/or storm water) into surface waters of the State.
5. Without prior approval from the agency, the permittee shall not accept and treat wastewater from any other facility.
6. The permittee shall submit each month according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.
7. The required DMRs shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director  
Division of Water and Waste Management  
601 57th Street, SE  
Charleston, West Virginia 25304  
Attn: Permitting Branch

U. S. Environmental Protection Agency  
Region III, Water Protection Division  
NPDES Enforcement Branch (3WP42)  
1650 Arch Street  
Philadelphia, PA 19103

Department of Environmental Protection  
Environmental Enforcement  
2031 Pleasant Valley Drive  
Fairmont, West Virginia 26554

8. For any noncompliance reports to be submitted in writing by this permit, a copy shall also be forwarded to the EPA at the location specified under Condition C.7. of this permit.
9. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

## Section C - Other Requirements

10. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.
11. The permittee shall not use alternate DMRs without prior approval from this Agency.
12. The Groundwater Protection Plan (GPP) shall be maintained at the plant site and shall be available for inspection by the Division of Water and Waste Management personnel.
13. The permittee shall maintain and implement the storm water pollution prevention plan (SWPPP) for the site. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with the industrial activity. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with the industrial activity at the facility and to assure compliance with the terms and conditions of this permit. A copy of this document shall be retained at the site and shall be available for review upon request from DEP personnel.
14. The following storm water requirements apply to Outlets 006, 007, 008, 011, 012, 013, and 014:

- a. Samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Samples shall be taken during the first thirty (30) minutes, or as soon thereafter as practicable, of the storm event.
- b. Each outlet shall be monitored separately.

c. Pollutant		Benchmark Value
-----		
Total Suspended Solids		100 mg/l
pH		6.0 to 9.0 S.U.
Total Copper		0.0636 mg/l
Total Zinc		0.117 mg/l
Total Aluminum		0.75 mg/l
Total Selenium		0.005 mg/l
Total Iron		1.5 mg/l
Total Arsenic		0.16854 mg/l
Total Mercury		0.0014 mg/l
Total Nickel		0.47 mg/l
Sulfate		700 mg/l
Fecal Coliform		400 cts/100ml

When the concentration results from a minimum of four consecutive samples of a pollutant are all less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (all pH values of the samples must be within the range 6.0 to 9.0 S.U.). The facility shall submit, each year, to the Division of Water and Waste Management, in lieu of the monitoring data, a certification (form will be provided upon request) that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the concentration of a pollutant exceeds the corresponding benchmark concentration or a pH value is not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the Division of Water and Waste Management at the address listed in Section C.7. Those parameters which have a limit in Section A are not eligible for this certification.

15. The facility shall maintain a Spill Prevention Control and Countermeasures (SPCC) Plan as required by Section 311(j) of the Clean Water Act. At a minimum the plan shall include all the required elements in 40 CFR 112 of the Code of Federal Regulations and be independently certified by a licensed professional engineer.

## Section C - Other Requirements

16. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the permit may be promptly modified and/or reissued to include effluent limitations and/or other requirements to control such storm water discharges.
17. The permittee shall perform acute effluent toxicity testing for Outlet No. 001 in accordance with the following.
  - a. The acute effluent toxicity testing prescribed, herein, shall be 48-hour static acute toxicity tests utilizing *Pimephales Promelas* fathead minnow and *Ceriodaphnia Dubia* as the test species.
  - b. The acute toxicity testing shall be performed on an annual (1/year) basis. The first acute toxicity testing shall be carried out within 6 months from the effective date of the permit. There shall be a minimum of three (3) months between sampling events.
  - c. 24-hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing.
  - d. The dilution water should be a representative sample of the receiving water and should be obtained from a point as close as possible to but upstream or outside of the zone influenced by the effluent. If dilution water from the receiving stream is not suitable, some other uncontaminated, well-aerated surface or groundwater or commercially available media or reconstituted laboratory water can be used.
  - e. Testing and reporting of the result shall be performed in accordance with 40 CFR 136 and must be submitted with the Discharge Monitoring Report (DMR) for the month following the completion of each test. LC50 shall be converted into Acute Toxic Units (TUa) using the following formula:

$$TUa = 100/LC50$$

For example, if LC50 is 100%, then  $TUa = 100/100 = 1$ .

When the LC50 is greater than 100%, the permittee shall report the acute toxicity as less than 1 TUa. When the effluent demonstrates no toxicity (no organisms die), the permittee may report zero TUa.

- f. If acute effluent toxicity testing results exceed a trigger value of 1 TUa, the permittee shall resample and retest the effluent. Resampling shall occur as soon as reasonably possible to accommodate key personnel scheduling but no more than 30 days after the receipt of the laboratory results indicating an exceedance of the value prescribed herein. Copies of the retesting results shall be provided to the Director as soon as reasonably possible however no more than 7 days after receipt from the laboratory. If the resampled result also reveals an exceedance of 1 TUa, the permittee shall contact the agency as soon as reasonably possible however no more than 7 days after receipt of the results from the laboratory.
  - g. The Director may impose further requirements should the acute effluent toxicity testing results demonstrate noncompliance.
18. In conformance with the requirements of Appendix A, Part II, Section 5, Removed Substances, the permittee shall obtain approval for the disposal of any solids generated by the wastewater treatment plant.
19. The permittee shall operate and maintain barge loading and unloading facilities in such a manner so as, to the maximum extent practicable, preclude spillage of coal, chemicals, etc. used at the facility, and shall take all actions necessary to clean up and control any such spill which may occur.
20. The permittee shall utilize EPA Method No. 1664 A (gravimetric analysis using the hexane extractable method [HEM]) for the analysis of oil and grease.
21. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

## Section C - Other Requirements

21. a.	Parameter	EPA Method No.	Method Detection Level (ug/l)
	Copper, Total Recoverable	200.8	0.5
	Boron, Total Recoverable	200.7	3
	Lead, Total Recoverable	200.8	0.6
	Zinc, Total Recoverable	200.8	1.8
	Nickel, Total Recoverable	200.8	0.5
	Arsenic, Total	200.8	1.4
	Barium, Total Recoverable	200.8	0.8
	Thallium, Total Recoverable	200.8	0.3
	Antimony, Total Recoverable	200.8	0.4
	Cadmium, Total Recoverable	200.8	0.5
	Selenium, Total Recoverable	200.9	0.6
	Beryllium, Total Recoverable	200.9	0.02
	Chromium, Hexavalent	218.6	0.6
	Aluminum, Total Recoverable	200.8	1
	Mercury, Total*	245.7	0.0018
	Mercury, Total*	1631	0.0002

\*The permittee may use either Method 245.7 or Method 1631 for the analysis of mercury.

22. Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State that the units in a particular location cannot operate at or below this level of chlorination as per Federal Effluent Guidelines 40 CFR 423.12.b.(8) and 40 CFR 423.13.d.(2). Simultaneous multi-unit chlorination is permitted.

23. As required by 40 CFR 423.13(d)(1), there shall be no detectable amount of each of the 126 priority pollutants found in 40 CFR 423 Appendix A (other than chromium which is limited to 0.2 mg/l and zinc which is limited to 1.0 mg/l) due to their presence in chemicals added for cooling tower maintenance. The permittee may use the following cooling tower maintenance chemicals:

Sodium hypochlorite  
Actibrom 1338  
Sulfuric Acid  
Caustic Soda  
Nalsperse 73550  
Nalco 73280/Trasar 3DT180  
Trasar 3DT121  
Nalco-H-130  
Nalco 1393T  
Nalco Perma-Treat PC-391T  
Nalcolyte 7757  
Nalcolyte 8100  
Ice Bite S  
Dust Control DG  
Mercontrol 8034 Plus  
Mercontrol 7895  
Redox-Hg  
Dust Form Plus

Usage of any other cooling tower maintenance chemicals other than those listed shall require prior agency approval.

24. Mitchell Plant coal pile storm water runoff shall continue to be directed to the new Outlet 012 (former WV0005291 Outlet 004) for ultimate treatment and discharge. Direct discharge via any other outlet is prohibited without prior approval from the agency.

25. The following conditions apply only to the package sewage treatment plant:

## Section C - Other Requirements

- 25. a. The herein described treatment works, structures, electrical, and mechanical equipment shall be adequately protected from physical damage by the maximum expected twenty-five (25) year flood level, and operability shall be maintained during the ten (10) year flood level.
  - b. The entire sewage treatment facility shall be adequately protected by fencing.
  - 25. c. Continuous maintenance and operation of the listed sewage treatment facility shall be performed by, or supervised by, a certified operator possessing at least a Class S certificate, for Waste Water Treatment Plant Operators, issued by the State of West Virginia.
  - 25. d. The permittee shall connect to a municipal or public service district sewage collection system when one becomes available; however, prior to this connection, the permittee shall obtain written permission from the municipal or public service district sewage system authority which will receive the waste and submit a request along with one (1) copy of the written permission to the Division of Water and Waste Management for approval.
  - e. Without prior approval from the agency, use of intermediates, by-products, spent solvents or any other materials (except commercial grade materials), containing pollutant(s) that cannot be removed by the wastewater treatment plant is prohibited.
26. Due to the use of ultraviolet disinfection as the primary disinfection method at the sewage treatment plant the permittee is to only use chlorine disinfection as absolutely necessary during maintenance and emergency periods. During these periods, the permittee shall minimize the use of chlorine disinfection to all extents practical and monitor and report the results for total residual chlorine at Outlet 003 at a frequency of 1/day by grab sample type. At no time shall chlorine disinfection be used as a substitute for ultraviolet disinfection during periods of normal operations.

During only maintenance or emergency periods in which chlorine disinfection is used for essential maintenance or to assure efficient operation, the permittee may report the discharge, if allowable, per Appendix A Section II.3. For the purposes of bypass reporting, the total residual chlorine concentration shall not exceed 57 ug/l at any time.

27. The upstream/intake temperatures and discharge temperatures required by Section A of this permit shall be collected concurrently. Concurrently shall be defined as no more than 30 minutes between monitoring collected at the upstream/intake location in the Ohio River and the respective discharges.
28. If the permittee seeks to qualify any electric generating unit that will achieve permanent cessation of coal combustion by December 31, 2028, a Notice of Planned Participation shall be made to the permitting authority, no later than October 13, 2021.
- a. Any Notice of Planned Participation shall be submitted with a major permit modification application and identify the electric generating units intended to achieve the permanent cessation of coal combustion. A Notice of Planned Participation shall include the expected date that each electric generating unit is projected to achieve permanent cessation of coal combustion, whether each date represents a retirement or a fuel conversion, whether each retirement or fuel conversion has been approved by a regulatory body, and what the relevant regulatory body is. The Notice of Planned Participation shall also include a copy of the most recent integrated resource plan for which the applicable state agency approved the retirement or repowering of the unit subject to the ELGs, certification of electric generating unit cessation under 40 CFR 257.103(b), or other documentation supporting that the electric generating unit will permanently cease the combustion of coal by December 31, 2028. The Notice of Planned Participation shall also include, for each such electric generating unit, a timeline to achieve the permanent cessation of coal combustion. Each timeline shall include interim milestones and the projected dates of completion.
29. Any facility providing the required documentation, via submittal of a major permit modification application, pursuant to § 423.19(g) may avail itself of the protections of a low utilization electric generating unit or permanently ceasing the combustion of coal by December 31, 2028, if such qualification would have been demonstrated absent the following qualifying events:
- a. An emergency order issued by the Department of Energy under Section 202(c) of the Federal Power Act,
  - b. A reliability must run agreement issued by a Public Utility Commission, or



### Section C - Other Requirements

- 29. c. Any other reliability-related order or agreement issued by a competent electricity regulator (e.g., an independent system operator) which results in that electric generating unit operating in a way not contemplated when the certification was made; or
- d. The operation of the electric generating unit was necessary for load balancing in an area subject to a declaration under 42 U.S.C. 5121 et seq., that there exists:
  - 1. An "Emergency," or
  - 2. A "Major Disaster," and
  - 3. That load balancing was due to the event that caused the "Emergency" or "Major Disaster" in paragraph (a)(4) of this section to be declared,
- 30. The Wastewater Pond Complex (within the footprint of the former Bottom Ash Pond) shall be lined with a double synthetic liner and leak detection and removal system consisting of two 40-mil LLDPE (upper and lower liners), synthetic geonet leak detection and removal layer, and leak collection piping or equivalent spec'ed liner and leak detection system.

Installation of the minimum controls specified above does not relieve the permittee from future installation of additional engineering controls and/or remediation of impacts upon migration of pollutants from the wastewater ponds to waters of the State. The permittee shall ensure proper operation and maintenance of the liners and shall take immediate action to repair any breach of the liners.

## Section D - 316 (b) Intake Requirements

1. In accordance with 316(b) of the Clean Water Act, the location, design, construction, and capacity of the cooling water intake structures (CWIS) for the permittee's facility shall reflect the best technology available (BTA) for minimizing adverse environmental impingement and entrainment at the intake structure.
2. On the basis of currently available information, the agency has determined that the facility will meet the BTA requirements 40 CFR 125.94 by choosing the BTA standard in 40 CFR 125.94(c)(2) for impingement mortality of 0.5 Feet Per Second Through-Screen Design Velocity.
  - a. The permittee has provided information that the facility operates a single river intake structure of 3, 36-diameter pipes extending from a 27-foot diameter intake caisson. At the end of each pipe are 4 sections of 54-inch diameter perforated pipe approximately 60 feet from the shore. Each perforated section measures 7.5 feet with 0.5 x 1.5 inch slotted holes.
  - b. The cooling water intake system consists of four (two primary, 1 standby, 1 reserve) vertical turbine, double suction, single-stage pumps discharge water to a 6-inch header:  
  
Primary Pumps (max flow rate): 17,500 gpm each (50.4 mgd total)  
Secondary Standby / Reserve Pumps (max flow rate): 17,500 gpm each (50.4 mgd total)  
Measured Velocity: N/A  
Design Velocity (normal operation: 0.15 ft/s @ 35,000 gpm  
Effective Intake Screen Area: Approximately 520 ft<sup>2</sup>
  - c. The permittee shall not modify its intake structure in such a way as to increase the design intake velocity at any intake screen a velocity greater than 0.5 ft/s. Any modification to the intake structure affecting screen velocity shall be approved by the Director.

This is considered to meet the BTA requirements of Section 316(b) of the Clean Water Act.

3. The permittee shall operate its intake to ensure that the total withdrawal from the Ohio River is less than 5% of the mean annual flow of the Ohio River.

This is considered to meet the BTA entrainment requirements of 40 CFR 125.94(d) and 316(b) of the Clean Water Act.

4. The permittee has identified the following species as Federally or West Virginia State threatened or endangered with a potential to occur within the AEP Mitchell Plant Action Area:
  - a. *Ammocrypta pellucida* (Eastern Sand Darter)  
*Carpionodes carpio* (River Carpsucker)  
*Carpionodes velifer* (Highfin Carpsucker)  
*Esox masquinongy* (Muskellunge)  
*Fundulus diaphanus* (Banded Killifish)  
*Fundulus diaphanus menona* (Western Banded Killifish)  
*Ithyomyzon bdellium* (Ohio Lamprey)  
*Ictiobus niger* (Black Buffalo)  
*Lepomis humilis* (Orangespotted Sunfish)  
*Moxostoma carinatum* (River Redhorse)  
*Percina copelandi* (Channel Darter)  
*Percina shumardi* (River Darter)  
*Pimephales vigilax* (Bullhead Minnow)  
*Polyodon spathula* (Paddlefish)
  - b. The permittee does not believe that it has impacted Federally or State listed species and has not sought or obtained an incidental take exemption or authorization from the United States Fish and Wildlife Service or West Virginia Division of Natural Services. However, nothing in this permit authorizes take for the purposes of a facility's compliance with the Endangered Species Act (40 CFR 125.98(b)(1)).
5. Pursuant to 40 CFR 122.62, the permit may also be reopened and modified with requirements of new regulations, standards, or judicial decisions relating to 316(b) of Clean Water Act.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0005304; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0005304; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

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Katheryn Emery, P.E., Acting Director

# Appendix A

## I. MANAGEMENT CONDITIONS:

### 1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

### 2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

### 3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

### 4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

### 5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

### 6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

### 7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

### 8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

### 9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

### 10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;
- b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

### 11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

### 12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settleable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

### 13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

### 14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- d) Nothing in I.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

## II. OPERATION AND MAINTENANCE:

### 1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

### 2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

### 3. Bypass

- a) Definitions
  - (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
  - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.
- c)
  - (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
  - (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.
- d) Prohibition of bypass
  - (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;
    - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
    - (C) The permittee submitted notices as required under II.3.c) of this permit.
  - (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

### 4. Upset

- a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
  - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

### 5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

### III. MONITORING AND REPORTING

#### 1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

#### 2. Reporting

- a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.
- b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.
- c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).
- d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g., 3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

#### 3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

#### 4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

#### 5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

#### 6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

#### 7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.
- i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.
- j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

## IV. OTHER REPORTING

### 1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

### 2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
  - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
  - (2) Any upset which exceeds any effluent limitation in the permit; and
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

### 3. Reporting Requirements

- a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
  - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
  - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
  - (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) One hundred micrograms per liter (100 ug/l);
    - (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series 10, Title 47.
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
  - (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) Five hundred micrograms per liter (500 ug/l);
    - (B) One milligram per liter (1 mg/l) for antimony;
    - (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
  - (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
  - (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

### 4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 001

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		2/month	Calculated
Year Round							Avg. Monthly	Max. Daily					
00530 (ML-1) RF-A	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	21.6	62.3	N/A	mg/l		2/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 07/01/2023)													
00530 (ML-1) RF-A	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	11	37.6	N/A	mg/l		2/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
00400 (ML-1) RF-A	Reported												
pH	Permit Limits	N/A	N/A			6	N/A	9	N/A	S.U.		2/month	Grab
Year Round						Inst. Min.		Inst. Max.					
00610 (ML-1) RF-B	Reported												
Ammonia Nitrogen	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
00620 (ML-1) RF-B	Reported												
Nitrogen Nitrate	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					

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		Signature of Principal Executive Officer or Authorized Agent	
Title of Officer		<input type="text"/>	



STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 001

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00615 (ML-1) RF-B	Reported												
Nitrogen Nitrite	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
50060 (ML-1) RF-A	Reported												
Chlorine, Total Residual	Permit Limits	N/A	N/A			N/A	0.016	0.057	0.1	mg/l		1/month	Grab
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 07/01/2023)													
50060 (ML-1) RF-A	Reported												
Chlorine, Total Residual	Permit Limits	N/A	N/A			N/A	0.028	0.057	0.1	mg/l		1/month	Grab
Year Round							Avg. Monthly	Max. Daily					
01119 (ML-1) RF-A	Reported												
Copper, Total Recoverable	Permit Limits	N/A	N/A			N/A	0.016	0.039	N/A	mg/l		2/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
01114 (ML-1) RF-B	Reported												
Lead, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
01094 (ML-1) RF-B	Reported												
Zinc, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

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LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 001

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01113 (ML-1) RF-B Cadmium, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
00718 (ML-1) RF-B Cyanide, Weak Acid Dissociable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	Grab
01074 (ML-1) RF-B Nickel, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
01079 (ML-1) RF-B Silver, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
01104 (ML-1) RF-A Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	0.58 Avg. Monthly	1.2 Max. Daily				1/month	24 hr Composite

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WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
00940 (ML-1) RF-B Chloride (as Cl) Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
00951 (ML-1) RF-B Fluoride, Total Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
61425 (ML-1) RF-C Acute Tox - Ceriodaphnia Dubia Year Round	Reported								N/A	TUa			
	Permit Limits	N/A	N/A			N/A	0.5 Avg. Monthly	0.9 Max. Daily				1/6 months	24 hr Composite
61427 (ML-1) RF-D Acute Toxicity - Pimephales Year Round	Reported								N/A	TUa			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/year	24 hr Composite
34423 (ML-1) RF-B Methylene Chloride Year Round	Reported								N/A	ug/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	Grab

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INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00981 (ML-1) RF-A Selenium, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Avg. Monthly	Max. Daily				2/month	24 hr Composite
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
01007 (ML-1) RF-B Barium, Total (as Ba) Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
32104 (ML-1) RF-B Bromoform Year Round	Reported								N/A	ug/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	Grab
00999 (ML-1) RF-B Boron, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite

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WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

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Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
11123 (ML-1) RF-B	Reported								N/A	mg/l			
Total Recov. Manganese Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
00011 (ML-7) RF-A	Reported								N/A	DEG.F			
Temperature, F Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Avg. Monthly				2/month	Insitu
00011 (ML-1) RF-A	Reported								N/A	DEG.F			
Temperature, F Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				2/month	Insitu
81020 (ML-1) RF-B	Reported								N/A	mg/l			
Sulfate Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
00927 (ML-1) RF-B	Reported								N/A	mg/l			
Magnesium,Tot (as Mg) Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite
01220 (ML-1) RF-B	Reported								N/A	mg/l			
Chromium, Hex. Diss. Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/quarter	24 hr Composite

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WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

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Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00552 (ML-1) RF-A	Reported												
Oil and Grease, Hexane EXTR.	Permit Limits	N/A	N/A			N/A	10.8	12.5	N/A	mg/l		1/month	Grab
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 07/01/2023)													
00552 (ML-1) RF-A	Reported												
Oil and Grease, Hexane EXTR.	Permit Limits	N/A	N/A			N/A	5.5	7.5	N/A	mg/l		1/month	Grab
Year Round							Avg. Monthly	Max. Daily					
00979 (ML-1) RF-B	Reported												
Cobalt, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
71870 (ML-1) RF-B	Reported												
Bromide	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					

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DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

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PERMIT NO.: WV0005304 003

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B	Reported												
Flow, in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	0.015	N/A	mgd		1/quarter	measured
Year Round							Avg. Monthly	Max. Daily					
00310 (ML-1) RF-B	Reported												
BOD, 5-Day 20 Deg.C	Permit Limits	3.75	7.5	Lbs/Day		N/A	30	60	N/A	mg/l		1/quarter	Grab
Year Round		Avg. Monthly	Max. Daily				Avg. Monthly	Max. Daily					
00530 (ML-1) RF-B	Reported												
Total Suspended Solids	Permit Limits	3.75	7.5	Lbs/Day		N/A	30	60	N/A	mg/l		1/quarter	Grab
Year Round		Avg. Monthly	Max. Daily				Avg. Monthly	Max. Daily					
74055 (ML-1) RF-B	Reported												
Coliform, Fecal	Permit Limits	N/A	N/A			N/A	200	400	N/A	Cnts/100m		1/quarter	Grab
Year Round							Mon. Geo. Mean	Max. Daily					
00400 (ML-1) RF-B	Reported												
pH	Permit Limits	N/A	N/A			6	N/A	9	N/A	S.U.		1/quarter	Grab
Year Round						Inst. Min.		Inst. Max.					
00625 (ML-1) RF-B	Reported												
Nitrogen, Kjeldahl Total	Permit Limits	2.25	4.5	Lbs/Day		N/A	18	36	N/A	mg/l		1/quarter	Grab
Year Round		Avg. Monthly	Max. Daily				Avg. Monthly	Max. Daily					

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DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

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PERMIT NO.: WV0005304 006

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-C	Reported												
Flow,in Conduit or thru plant Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/6 months	Estimated
00530 (ML-1) RF-C	Reported												
Total Suspended Solids Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-1) RF-C	Reported												
pH Year Round	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01119 (ML-1) RF-C	Reported												
Copper, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01094 (ML-1) RF-C	Reported												
Zinc, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71900 (ML-1) RF-C	Reported												
Mercury, Total (as Hg) Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	
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Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-1) RF-C Nickel, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab
01104 (ML-1) RF-C Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab
00980 (ML-1) RF-C Iron, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab
00981 (ML-1) RF-C Selenium, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab
00978 (ML-1) RF-C Arsenic, Total Recoverable Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab
81020 (ML-1) RF-C Sulfate Year Round	Reported								N/A	mg/l			
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily				1/6 months	Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer  	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed <input type="text"/>
		Signature of Principal Executive Officer or Authorized Agent  
Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 006

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units					Measurement Frequency	Sample Type	
				Units	N.E.				CEL*	Units			N.E.
01220 (ML-1) RF-C	Reported												
Chromium, Hex. Diss. Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed	
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 007

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01119 (ML-1) RF-C Copper, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab

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		Signature of Principal Executive Officer or Authorized Agent  
Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 007

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-1) RF-C Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-C Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00981 (ML-1) RF-C Selenium, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00978 (ML-1) RF-C Arsenic, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 008

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-C Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
01119 (ML-1) RF-C Copper, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01094 (ML-1) RF-C Zinc, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 008

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-1) RF-C	Reported												
Nickel, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B	Reported												
Aluminum, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B	Reported												
Iron, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00981 (ML-1) RF-B	Reported												
Selenium, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00978 (ML-1) RF-C	Reported												
Arsenic, Total Recoverable Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
81020 (ML-1) RF-C	Reported												
Sulfate Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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		Signature of Principal Executive Officer or Authorized Agent  
Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 011

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-C	Reported												
Flow in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		1/6 months	Estimated
Year Round							Avg. Monthly	Max. Daily					
00530 (ML-1) RF-C	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
00400 (ML-1) RF-C	Reported												
pH	Permit Limits	N/A	N/A			Rpt Only	N/A	Rpt Only	N/A	S.U.		1/6 months	Grab
Year Round						Inst. Min.		Inst. Max.					
01119 (ML-1) RF-C	Reported												
Copper, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
01094 (ML-1) RF-C	Reported												
Zinc, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
71900 (ML-1) RF-C	Reported												
Mercury, Total (as Hg)	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					

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Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 011

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-1) RF-C Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-C Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00980 (ML-1) RF-C Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00981 (ML-1) RF-C Selenium, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00978 (ML-1) RF-C Arsenic, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
70295 (ML-1) RF-C Solids, Total Dissolved (TDS) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer  		



STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 011

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01220 (ML-1) RF-C Chromium, Hex. Diss. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 012

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-C	Reported												
Flow in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		1/6 months	measured
Year Round							Avg. Monthly	Max. Daily					
00530 (ML-1) RF-C	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	Rpt Only	50	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
00400 (ML-1) RF-C	Reported												
pH	Permit Limits	N/A	N/A			Rpt Only	N/A	Rpt Only	N/A	S.U.		1/6 months	Grab
Year Round						Inst. Min.		Inst. Max.					
01119 (ML-1) RF-C	Reported												
Copper, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
01094 (ML-1) RF-C	Reported												
Zinc, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
71900 (ML-1) RF-C	Reported												
Mercury, Total (as Hg)	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 012

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01074 (ML-1) RF-C Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-C Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00980 (ML-1) RF-C Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00981 (ML-1) RF-C Selenium, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00978 (ML-1) RF-C Arsenic, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 013

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-C	Reported												
Flow in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		1/6 months	Estimated
Year Round							Avg. Monthly	Max. Daily					
00530 (ML-1) RF-B	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	Grab
Year Round							Avg. Monthly	Max. Daily					
74055 (ML-1) RF-B	Reported												
Coliform, Fecal	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	Cnts/100m		1/quarter	Grab
Year Round							Mon. Geo. Mean	Max. Daily					
00400 (ML-1) RF-C	Reported												
pH	Permit Limits	N/A	N/A			Rpt Only	N/A	Rpt Only	N/A	S.U.		1/6 months	Grab
Year Round						Inst. Min.		Inst. Max.					
01119 (ML-1) RF-C	Reported												
Copper, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/6 months	Grab
Year Round							Avg. Monthly	Max. Daily					
01094 (ML-1) RF-B	Reported												
Zinc, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/quarter	Grab
Year Round							Avg. Monthly	Max. Daily					

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer  	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed <input type="text"/>
		Signature of Principal Executive Officer or Authorized Agent  
Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 013

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
71900 (ML-1) RF-C Mercury, Total (as Hg) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/6 months	Grab
01074 (ML-1) RF-C Nickel, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00981 (ML-1) RF-C Selenium, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
00978 (ML-1) RF-C Arsenic, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 013

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81020 (ML-1) RF-C Sulfate Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01220 (ML-1) RF-C Chromium, Hex. Diss. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab

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Title of Officer  			

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 101

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		Once/Daily Discharge	measured
Year Round							Avg. Monthly	Max. Daily					
01042 (ML-1) RF-A	Reported												
Copper, Total (as Cu)	Permit Limits	N/A	N/A			N/A	1	1	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					
01045 (ML-1) RF-A	Reported												
Iron, Total (as Fe)	Permit Limits	N/A	N/A			N/A	1	1	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent	<input type="text"/>

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 106

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B	Reported												
Flow, in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mgd		Once/Daily Discharge	Estimated
Year Round							Avg. Monthly	Max. Daily					
00530 (ML-1) RF-B	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A			N/A	Rpt Only	100	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					
00400 (ML-1) RF-B	Reported												
pH	Permit Limits	N/A	N/A			6	N/A	9	N/A	S.U.		Once/Daily Discharge	Grab
Year Round						Inst. Min.		Inst. Max.					
01119 (ML-1) RF-B	Reported												
Copper, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	0.039	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					
01094 (ML-1) RF-B	Reported												
Zinc, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					
71900 (ML-1) RF-B	Reported												
Mercury, Total (as Hg)	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		Once/Daily Discharge	Grab
Year Round							Avg. Monthly	Max. Daily					

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 106

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	1.2 Max. Daily	N/A	mg/l		Once/Daily Discharge	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		Once/Daily Discharge	Grab
00552 (ML-1) RF-B Oil and Grease, Hexane EXTR. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	20 Max. Daily	N/A	mg/l		Once/Daily Discharge	Grab

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Title of Officer  		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO  
 LOCATION OF FACILITY: MOUNDSVILLE; Marshall County  
 PERMIT NO.: WV0005304 201  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/month	measured
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 03/31/2025)													
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/month	measured
Year Round							Avg. Monthly	Max. Daily					
71900 (ML-1) RF-A	Reported												
Mercury, Total (as Hg)	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 03/31/2025)													
71900 (ML-1) RF-A	Reported												
Mercury, Total (as Hg)	Permit Limits	N/A	N/A			N/A	0.028	0.084	N/A	ug/l		1/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
00981 (ML-1) RF-A	Reported												
Selenium, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					
Interim (Initial to 03/31/2025)													
00981 (ML-1) RF-A	Reported												
Selenium, Total Recoverable	Permit Limits	N/A	N/A			N/A	24	58	N/A	ug/l		1/month	24 hr Composite
Year Round							Avg. Monthly	Max. Daily					

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STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Kentucky Power Company - Mitchell Plant) KENTUCKY POWER CO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: MOUNDSVILLE; Marshall County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0005304 201

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00978 (ML-1) RF-A	Reported												
Arsenic, Total Recoverable	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	ug/l		1/month	24 hr
Year Round							Avg. Monthly	Max. Daily					Composite
Interim (Initial to 03/31/2025)													
00978 (ML-1) RF-A	Reported												
Arsenic, Total Recoverable	Permit Limits	N/A	N/A			N/A	7	15.5	N/A	ug/l		1/month	24 hr
Year Round							Avg. Monthly	Max. Daily					Composite
00630 (ML-1) RF-A	Reported												
Nitrite Plus Nitrate Nitrogen	Permit Limits	N/A	N/A			N/A	Rpt Only	Rpt Only	N/A	mg/l		1/month	24 hr
Year Round							Avg. Monthly	Max. Daily					Composite
Interim (Initial to 03/31/2025)													
00630 (ML-1) RF-A	Reported												
Nitrite Plus Nitrate Nitrogen	Permit Limits	N/A	N/A			N/A	2.5	3.3	N/A	mg/l		1/month	24 hr
Year Round							Avg. Monthly	Max. Daily					Composite

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Title of Officer  			

### NOTICE TO PERMITTEES

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **\$5000.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee.** Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

**FACT SHEET**

**1. NAME AND ADDRESS OF APPLICANT**

KENTUCKY POWER COMPANY  
1 RIVERSIDE PLAZA  
22ND FLOOR  
COLUMBUS, OH 43215

**2. NAME AND ADDRESS OF FACILITY**

Kentucky Power Company - Mitchell Plant  
8999 Energy Road  
Moundsville, WV 26041

**3. STATE NPDES APPLICATION NO.** WV0005304

**4. COUNTY** Marshall

**RECEIVING STREAM** Conner Run Of Fish Creek Of Ohio River

**5. PUBLIC NOTICE NO.** L-77-21

**COMMENT PERIOD:** From 08/31/2021 To 09/30/2021

**6. SIC CODE(s)** 4911

**7. DESCRIPTION OF APPLICANT'S FACILITY OR ACTIVITY**

Steam Electric Generating Station consisting of two (2) 800 MW coal-fired units. The turbine condensers utilize Ohio River water in a closed cycle cooling process utilizing cooling towers. The fly ash generated from coal combustion is collected in electrostatic precipitators and converted to a dry fly ash for disposal. Boiler ash is collected and sold for beneficial use or impounded on-site. Miscellaneous low volume wastewater is treated prior to discharge to the Ohio River. Waste water from the FGD operation is treated and then sent to the bottom ash pond for further settling before discharge to the Ohio River.

**8. DESCRIPTION OF DISCHARGES(as reported by applicant):**

**Effluent Characteristics For Outlet No. 001**

Parameter	ML Code	Season	Quantity			Other Units			
			Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Acute Tox - Ceriodaphnia C	1	Year Round					1.05	1.30	TUa
Acute Toxicity - Pimephales	1	Year Round					1.00	1.00	TUa
Aluminum, Total Recoverat	1	Year Round					0.11	0.81	mg/l
Ammonia Nitrogen	1	Year Round					1.58	15.00	mg/l
Antimony, Total (as Sb)	1	Year Round					0.0005	0.0015	mg/l
Arsenic, Total Recoverable	1	Year Round					0.004	0.008	mg/l
Beryllium, Total Recoverabl	1	Year Round					0.00003	0.00012	mg/l
Chloride (as Cl)	1	Year Round					267.01	714.00	mg/l
Chlorine, Total Residual	1	Year Round					0.04	0.10	mg/l
Chromium, Hex. Diss.	1	Year Round					0.0012	0.012	mg/l

**8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:****Effluent Characteristics For Outlet No. 001**

<u>Parameter</u>	<u>ML Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly Avg</u>	<u>Max</u>	<u>Units</u>
Copper, Total Recoverable	1	Year Round					0.0046	0.029	mg/l
Flow,in Conduit or thru plar	1	Year Round					5.59	9.48	mgd
Iron, Total Recoverable	1	Year Round					0.19	1.60	mg/l
Lead, Total Recoverable	1	Year Round					0.00024	0.0012	mg/l
Mercury, Total (as Hg)	1	Year Round					0.0035	0.029	ug/l
Nitrogen Nitrate	1	Year Round					1.64	2.86	mg/l
Nitrogen Nitrite	1	Year Round					0.10	0.55	mg/l
Nitrogen, Total (as N)	1	Year Round	245.48	531.20	Lbs/Day		4.75	9.58	mg/l
Oil and Grease, Hexane E>	1	Year Round					1.41	2.00	mg/l
pH	1	Year Round				6.03		9.00	S.U.
Phosphorus, Total	1	Year Round	7.91	13.08	Lbs/Day		0.15	0.21	mg/l
Selenium, Total Recoverab	1	Year Round					0.01	0.04	mg/l
Solids, Total Dissolved (TD	1	Year Round					1158.20	1840.00	mg/l
Sulfate	1	Year Round					504.13	1190.00	mg/l
Temperature, F	1	Year Round					66.75	92.00	DEG.F
Thallium, Total (as Tl)	1	Year Round					0.0001	0.0003	mg/l
Total Suspended Solids	1	Year Round					3.82	28.20	mg/l
Zinc, Total Recoverable	1	Year Round					0.004	0.014	mg/l

**Effluent Characteristics For Outlet No. 003**

<u>Parameter</u>	<u>ML Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly Avg</u>	<u>Max</u>	<u>Units</u>
Ammonia Nitrogen	1	Year Round			Lbs/Day				mg/l
BOD, 5-Day 20 Deg.C	1	Year Round	0.20	1.00	Lbs/Day		1.45	2.93	mg/l
Chlorine, Total Residual	1	Year Round							mg/l
Coliform, Fecal	1	Year Round					2.23	10.00	Cnts/100ml
Flow,in Conduit or thru plar	1	Year Round					0.01	0.01	mgd
Nitrogen, Kjeldahl Total	1	Year Round	0.08	0.43	Lbs/Day		1.40	7.17	mg/l
Nitrogen, Total (as N)	1	Year Round	2.55	3.30	Lbs/Day		46.68	72.69	mg/l
pH	1	Year Round				6.07		6.92	S.U.
Phosphorus, Total	1	Year Round	0.29	0.42	Lbs/Day		5.33	8.30	mg/l

**8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:****Effluent Characteristics For Outlet No. 003**

<u>Parameter</u>	<u>ML</u> <u>Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>
Total Suspended Solids	1	Year Round	0.02	0.05	Lbs/Day		0.37	0.80	mg/l

**Effluent Characteristics For Outlet No. 006**

<u>Parameter</u>	<u>ML</u> <u>Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>
Aluminum, Total Recoverat	1	Year Round					0.61	1.31	mg/l
Arsenic, Total Recoverable	1	Year Round					0.0039	0.01	mg/l
Chromium, Hex. Diss.	1	Year Round					0.00125	0.0035	mg/l
Copper, Total Recoverable	1	Year Round					0.15	3.23	mg/l
Flow,in Conduit or thru plar	1	Year Round					9.27	49.13	mgd
Iron, Total (as Fe)	1	Year Round					1.23	2.42	mg/l
Mercury, Total (as Hg)	1	Year Round					0.03	0.07	ug/l
Nickel, Total Recoverable	1	Year Round					0.01	0.02	mg/l
pH	1	Year Round				7.10		8.38	S.U.
Selenium, Total Recoverab	1	Year Round					0.002	0.004	mg/l
Solids, Total Dissolved (TD	1	Year Round					459.40	612.00	mg/l
Sulfate	1	Year Round					191.24	257.00	mg/l
Thallium, Total (as TI)	1	Year Round					0.00015	0.0005	mg/l
Total Suspended Solids	1	Year Round					23.01	37.20	mg/l
Zinc, Total Recoverable	1	Year Round					0.11	0.53	mg/l

**Effluent Characteristics For Outlet No. 007**

<u>Parameter</u>	<u>ML</u> <u>Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>
Aluminum, Total Recoverat	1	Year Round					0.67	1.50	mg/l
Copper, Total Recoverable	1	Year Round					0.02	0.07	mg/l
Flow,in Conduit or thru plar	1	Year Round					0.20	1.44	mgd
Mercury, Total (as Hg)	1	Year Round					0.06	0.12	ug/l
Selenium, Total Recoverab	1	Year Round					0.003	0.0056	mg/l
Solids, Total Dissolved (TD	1	Year Round					462.22	703.00	mg/l

**8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:****Effluent Characteristics For Outlet No. 007**

<u>Parameter</u>	<u>ML</u> <u>Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>
Sulfate	1	Year Round					215.03	340.00	mg/l
Total Suspended Solids	1	Year Round					46.97	134.00	mg/l
Zinc, Total Recoverable	1	Year Round					0.12	0.36	mg/l

**Effluent Characteristics For Outlet No. 008**

<u>Parameter</u>	<u>ML</u> <u>Code</u>	<u>Season</u>	<u>Quantity</u>			<u>Other Units</u>			
			<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>	<u>Min</u>	<u>Monthly</u> <u>Avg</u>	<u>Max</u>	<u>Units</u>
Aluminum, Total Recoverat	1	Year Round					0.44	2.89	mg/l
Flow,in Conduit or thru plar	1	Year Round					0.02	0.17	mgd
Iron, Total (as Fe)	1	Year Round					0.80	4.64	mg/l
Selenium, Total Recoverab	1	Year Round					0.0047	0.0163	mg/l
Solids, Total Dissolved (TD	1	Year Round					854.72	1590.00	mg/l
Total Suspended Solids	1	Year Round					59.80	59.80	mg/l

**9. PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

Refer to attached Section A and DMR pages of the Draft Permit.

**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

The Kentucky Power Company's Mitchell Plant is a steam electric power generating facility located on the south bank of the Ohio River, Marshall County, near Moundsville, West Virginia. The treatment process consists of sedimentation, neutralization and chemical precipitation of various waste streams. All plant drains, except non-process area storm water and yard and roof drains are directed to the plant's wastewater treatment facilities. Coal pile runoff from the Mitchell Plant's coal yard is also directed to plant's wastewater treatment facilities. Bottom ash is pumped to a bottom ash dewatering pond and the supernatant is treated along with low volume wastes in the wastewater treatment basin before being discharged. Boiler cleaning wastewater and rinse water is pumped to a large tank where it is treated to precipitate the metals. The water is then pumped to the wastewater treatment basin prior to discharge. Cooling tower blowdown is piped to the bottom ash pond. Wastewater from the FGD operation is treated and then sent to bottom ash dewatering pond. The Mitchell Plant has switched to a dry fly ash system and no longer sluices the fly ash to send to impoundment. The Connor Run Impoundment (Outlet 004) and seeps (Outlets 009, 010) were transferred to WV0116939 on February 24, 2014. Monitoring Wells MWH1, MWH2, MWH3, MWL2, MWL3, MWU1, MWU2, and MWU3 were also transferred to WV0116939. The adjacent Kammer Plant (WV0005291) was shut down on June 30, 2015. Outlet 004 from the Kammer permit is being transferred to this permit as Outlet 012. The sampling and limits in this draft permit for this outfall are storm water and process water



**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

(coal pile runoff). The area around the dry fly ash facility incorporates a new permanent stormwater pond which discharges to Fish Creek and is new Outlet 011.

For the purposes of this Fact Sheet, the following abbreviations shall apply:

- a) 'Agency' refers to the Division of Water and Waste Management of the Department of Environmental Protection of the State of West Virginia.
- b) 'Permittee' refers to Kentucky Power Company (d/b/a American Electric Power), Mitchell Plant.
- c) 'Effluent Guidelines' refers to the final effluent limitation guidelines promulgated by the EPA for Steam Electric Power Generating Point Source Category (40 CFR 423).
- d) 'WVLR' refers to the West Virginia Legislative Rules of the Department of Environmental Protection, 47 CSR 2, 10, and 11.
- e) 'EPA' refers to the U. S. Environmental Protection Agency.
- f) 'TRC' refers to Total Residual Chlorine; 'FAC' refers to Free Available Chlorine.

Permit conditions are based on the applicable Effluent Guidelines and the Water Quality Standards as outlined in 47 CSR-2-8 of the WVLR.

**RECEIVING WATERS AND WATER USE CLASSIFICATION**

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The receiving water is the Ohio River in the vicinity of Mile Point 242.

7Q10 Ohio River = 6700 cfs

Assumed Temperature for WQBELs: 27 C

Hardness: 112 mg/l

pH: 7.7 s.u.

Background data for the Ohio River was obtained from ORSANCO (2017-2019).

The 303(d) list includes bacteria and dioxin for the Ohio River. A TMDL has been developed for PCBs.

**NARRATIVE WATER QUALITY**

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West Virginia does not currently have a numeric water quality criterion prescribed for sulfate. However, the agency does have concerns with the toxicity from this pollutant and its impact on the narrative water quality criteria found in 47 CSR 2, Section 3.2.e which prohibits discharges from discharging materials in concentrations which are harmful to or toxic to man, animal, or aquatic life. Therefore, the agency does possess a narrative water quality criterion which can be used for limiting specific pollutants where the State has no numeric criteria for those pollutants. In order to be protective of the water quality in the Ohio River, the agency believes it is necessary to evaluate the necessity of water quality-based effluent limits for this pollutant due to past use and manufacture at the facility. EPA has established an LC50 of 7,000 mg/l for sulfate for daphnia magna in its ECOTOX database. The agency used 1/10th of this value as the B1,B4 acute aquatic life water quality criterion for sulfate to evaluate if there is reasonable potential to cause or contribute to a violation of the State's narrative water quality criteria.

**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

## OUTLET 001 TREATMENT AND ELGs

These treatment facilities consists of a reclaim pond, east and west wastewater ponds, east and west bottom ash ponds, and the clear water pond which are used for neutralization, sedimentation, and oil skimmers for separation. All plant's drains are directed to the plant's wastewater treatment facilities.

Previous permits imposed 30 mg/l avg monthly / 100 mg/l max daily TSS limits and 15 mg/l average monthly / 20 mg/l max daily O&G limits at Outlet 001. However, the Outlet 001 treatment system is a combined treatment system which contains both regulated wastestreams and non-regulated wastestreams. As such, the 40 CFR 423 ELGs must be adjusted via the combined wastestream formula to prohibit dilution of process wastewater. Based on the flow diagram submitted with the permit application and DMR flows, the ELG limitations have been adjusted for non-regulated flows. An example calculation for the average monthly TSS at Outlet 001 is as follows:

DMR Average Flow (2016-2021) : 5.66 mgd  
DMR Max Flow (2016 - 2020) : 9.5 mgd  
% Low Volume Wastewater (permit application) : 53.2  
% Coal Pile Runoff (permit application) : 0  
% Bottom Ash (permit application) : 10.9  
% FGD / CCR (permit application) : 7.9  
% Non - process (permit application) : 27.9

Avg Low Volume Wastewater Flow : 3.01 mgd  
Avg Coal Pile Runoff Flow : 0 mgd  
Avg Bottom Ash Flow : 0.62 mgd  
Avg FGD / CCR : 0.448 mgd  
Avg Non-process Flow : 1.58 mgd

[40 CFR 423.12]

TSS Avg ELG (LVW + Bottom Ash + FGD / CCR) = 30 mg/l x 4.08 mgd x 8.34 = 1,021 lbs/day  
Equivalent TSS Avg ELG limitation at Outlet 001 = 1,021 lbs/day / 5.66 MGD / 8.34 = 21.6 mg/l

The non-regulated wastewaters are not expected to contribute any significant amounts of oil and grease to the combined treatment system; therefore, no credit was given in calculation of the equivalent O&G ELG at Outlet 001.

O&G Avg ELG (LVW+Bottom Ash + FGD / CCR) = 15 mg/l x 4.08 mgd x 8.34 = 510.4 lbs/day  
Equivalent O&G Avg ELG limitation at Outlet 001 = 510.4 lbs/day / 5.66 MGD / 8.34 = 10.8 mg/l

A similar calculation was used to calculate the free available chlorine ELG limitations required by 40 CFR 423.13 for cooling tower blowdown to compare to the water quality based total residual chlorine limitations at Outlet 001. It was determined that the average monthly free available chlorine limitation is more stringent than the water quality based limitations and therefore the average monthly ELG limitation was imposed in Section A.001.

With the current renewal application, the permittee has proposed to eliminate bottom ash transport discharges to Outlet 001 and to convert the bottom ash ponds to non-wastewater ponds and then construct

**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

a new Wastewater Pond Complex constructed in their footprint. A tank-based chemical treatment system (organosulfide and polymer) will be constructed. The current schedule has completion by February 1, 2024. This date is before the statutory date of December 31, 2025; therefore, February 1, 2024 is imposed as the compliance deadline for reduction or elimination of bottom ash transport wastewater by 40 CFR 423.13(k)(1) (i).

The permittee will also construct an ultrafiltration treatment system (pressure filter) to treat FGD wastewater and landfill leachate at the outlet of the existing FGD WWTP (new Outlet 201). The project is expected to be completed by April 1, 2025. This date is before the statutory date of December 31, 2025; therefore, April 1, 2025 is imposed as the compliance deadline for new limitations prescribed by 40 CFR 423.13 Table 5. The new ultrafiltration system will be a combined system that treats both FGD wastewater (regulated) and landfill leachate (non-regulated). As such the permit writer used the combined wastewater formula to grant a credit for arsenic, mercury, nitrate-nitrite, and selenium at Outlet 201. An example calculation for average monthly and max daily arsenic is as follows:

FGD Wastewater Avg Flow (existing): 0.648 MGD

Landfill Leachate Avg Flow (existing): 0.144 MGD

ELG Arsenic Removal Efficiency\* : 96.3%

FGD Arsenic Avg Mon Limitation (40 CFR 423.13) : 8 ug/l = 0.008 mg/l

Landfill leachate Arsenic Average Conc. (pre-bioreactor, May - August 2020) : 74.03 ug/l = 0.07403 mg/l

FGD Arsenic Avg Mon Limitation Mass:  $0.648 \text{ MGD} \times 0.008 \text{ ppm} \times 8.34 = 0.0432 \text{ lbs/day}$

Landfill Leachate Arsenic Mass (pre-bioreactor) :  $0.114 \text{ MGD} \times 0.07403 \text{ ppm} \times 8.34 = 0.0889 \text{ lbs/day}$

Landfill Leachate Arsenic Mass (post-treatment) :  $0.0889 \text{ lbs/day} \times (1-0.963) = 0.0033 \text{ lbs/day}$

FGD + Landfill Leachate Arsenic Mass (post-treatment) :  $0.0432 \text{ lbs/day} + 0.0033 \text{ lbs/day} = 0.0465 \text{ lbs/day}$

Adj FGD Arsenic Avg Mon Limit:  $0.0465 \text{ lbs/day} / (0.648 \text{ MGD} + 0.114 \text{ MGD}) / 8.34 = 0.007 \text{ mg/l} = 7.0 \text{ ug/l}$

FGD Wastewater Max Flow (existing, assumed) : 0.739 MGD

Landfill Leachate Max Flow (existing, assumed) : 0.16 MGD

ELG Arsenic Removal Efficiency\* : 96.3%

FGD Arsenic Max Limitation (40 CFR 423.13) : 18 ug/l = 0.018 mg/l

Landfill leachate Arsenic Max Conc. (pre-bioreactor, assumed) : 111 ug/l = 0.111 mg/l

FGD Arsenic Max Limitation Mass :  $0.739 \text{ MGD} \times 0.018 \text{ ppm} \times 8.34 = 0.111 \text{ lbs/day}$

Landfill Leachate Arsenic Mass (pre-bioreactor) :  $0.16 \text{ MGD} \times 0.111 \text{ ppm} \times 8.34 = 0.152 \text{ lbs/day}$

Landfill Leachate Arsenic Mass (post-treatment) :  $0.206 \text{ lbs/day} \times (1-0.963) = 0.0056 \text{ lbs/day}$

FGD + Landfill Leachate Arsenic Mass (post-treatment) :  $0.111 \text{ lbs/day} + 0.0056 \text{ lbs/day} = 0.1165 \text{ lbs/day}$

Adj FGD Arsenic Max Daily Limit:  $0.1165 \text{ lbs/day} / (0.739 \text{ MGD} + 0.16 \text{ MGD}) / 8.34 = 0.0155 \text{ mg/l} = 15.5 \text{ ug/l}$

\* Supplemental Technical Development Document - Steam Electric Reconsideration Rule

OUTLET 001 WQBELS

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The permittee monitored for ammonia, arsenic, barium, chloride, hexavalent chromium, copper, mercury,

**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

nickel, selenium, total residual chlorine, sulfate, and whole effluent toxicity. A default mixing zone was granted for ammonia, chloride, copper, mercury, selenium, sulfate, and magnesium (zid=3, cmz=10, hhcmz=30). There was reasonable potential to exceed the water quality criteria at the end of pipe and to exceed the water quality criteria at the edge of the default mixing zone for aluminum, copper, selenium, total residual chlorine, and whole effluent toxicity (ceriodaphnia dubia). Limitations are imposed. Monitoring is imposed for the remaining parameters.

The permittee monitored for beryllium and thallium. A default mixing zone could not be granted since background data for the receiving stream was not available. There was no reasonable potential to exceed the water quality criteria at the end of pipe for either. Analitcal results for both thallium and beryllium are consistently at or below the detection limit. Monitoring has been removed.

A reasonable potential assessment was conducted to determine if WQBELs were needed to protect the temperature WQC. Background data for the Ohio River was prescribed for the individual months to account for seasonal variations. A default mixing zone of 3 dilutions for the ZID and 10 dilutions for the CMZ was granted. A reasonable potential assessment was conducted over each of aforementioned time frames using each time frame's corresponding background data and projected temperature discharge levels provided. There was reasonable potential to exceed WQC at end of pipe but not at the edge of the default mixing zone for May through October. Data for the remaining months was not available. Monitoring is imposed.

The permittee monitored Outlet 001 for Acute Whole Effluent Toxicity (Ceriodaphnia Dubia and Pimephales Promelas) during the term of the last permit. The test endpoint for acute toxicity testing is the LC50 concentration. Monitoring indicated eight values of <1.0 TUa, 1 value of 1.3 TUa, and 1 value of 1.13 TUa for Ceriodaphnia Dubia and 10 values of <1.0 TUa for Pimephales Promelas. Using the procedures in EPA's Technical Support Document for Water Quality Based Toxics Control (TSD), a reasonable potential (RP) assessment was performed on the Chronic Whole Effluent Toxicity (WET) results. The agency uses 0.3 TUa as an acute water quality criterion and 1.0 TUc as a chronic water quality criterion to be protective of WV's narrative water quality standards. There was was RP to exceed water quality criteria at the end of pipe for Ceriodaphnia Dubia but no RP for Pimephales Promelas. Limitations are imposed in Section A.001 of the permit. Additional information concerning WET testing and specific requirements are provided in Section C.17 of the draft permit.

Monitoring has been added for bromide, bromoform, fluoride, cobalt, methylene chloride, and magnesium to generate a database based on detections submitted with permit application.

**OUTLET 003**  
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This outlet discharges treated sanitary waste. The permittee operates a recirculating sand filter and ultraviolet disinfection sewage treatment facility. There are five (5) septic tanks that flow to two (2) recirculating tanks. The two recirculating pumps feed forty (40) recirculating sand filters. The system includes ultraviolet disinfection. The capacity of the sewage treatment facility is 15,000 gallons per day (GPD). The proposed limits for BOD5 and total suspended solids (TSS) are based on waste load allocations are technology based. Limits for pH, ammonia nitrogen, and fecal coliform are water quality based.

**STORMWATER (OUTLETS 006, 012, 013, and 014)**  
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**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

Outlet 006 - This outlet drains approximately 27.4 acres of property north of Unit 1 for internal plant roads, building roof drains, areas around the precipitators, ash handling facilities, main plant building, conveyors, transformers, outdoor chemical handling/storage areas, condensate tanks, brine storage tanks, ammonia tanks, cooling towers, fuel oil storage secondary and used oil storage containment devices. Miscellaneous washdown waters and emergency overflows from the plant's wastewater and precipitator sumps are also routed to this storm water conveyance which are potentially low volume wastewater under 40 CFR 423.12. These other wastewaters are addressed via new Internal Outlet 106.

Outlet 007 - This outlet drains approximately 29.4 acres of property southwest of Unit 1 for drainage east of Route 2 and directly from Route 2, paved and unpaved parking areas, Unit 1 precipitator area, Unit 1 cooling tower, Fish Creek substation, roof drains, loading and material storage dock areas, fuel oil tank pumping station, spare mineral oil transformer containment, gypsum transfer conveyors, emergency overflows from Unit 1 cooling and precipitator sumps.

Outlet 008 - This outlet drains approximately 4.9 acres of property near the clearwater pond for an unpaved area under the transmission tower, outside the clearwater, metal cleaning, and bottom ash pond dikes, a small section of railroad, the gypsum storage building, gypsum / limestone transfer conveyors, and unpaved plant roads.

Outlet 012 - Outfall No. 004 from the Kammer Plant (former WV/NPDES Permit No. WV0005291) has been transferred to this permit as part of the shutdown of the Kammer operation. This Outfall becomes No. 012 in the Mitchell permit. The former Kammer Pond receives stormwater from the Mitchell coal pile, off-site stormwater and former Kammer Plant site, with exception of the former Kammer coal yard. Since this outlet receives coal pile runoff, 40 CFR 423.12(b)(9). Since it is unclear the makeup of process and non-process wastewaters at this outlet, a flow inventory is required in Section B of the permit.

Outlet 013 and 014 - These outlets have been transferred from the Kammer Plant (former WV/NPDES Permit No. WV0005291) and where formerly Outlets 006 and 007 in that permit. The area draining these outlets consisted of approximately 1.2 acres of impervious area that included (prior to demolition) plant buildings, guardhouse, condensate tank, training center, outside chemical and oil storage/handling areas, and main employee parking lot.

Stormwater from much of the plant grounds (most areas to the east and south of the generating unit building) drains to a stormwater sump completed in 2013 which is pumped to the BAP complex. Former Outlets 004, 005, and 011 drain to a sump which is now pumped to the BAP complex. These areas include vegetated plant yards, paved and graveled roadways and parking areas, graveled laydown yards, and various plant process buildings and warehouses. These outlets have been removed from the permit along with Outlets 008, 009, 010, 013, 014, 015, 016, 017, and 018. These drainage areas formerly contributing stormwater runoff for these outlets along the east and north borders of the plant (drainage areas totaling approximately 30 acres), along the Ohio River and Little Broad Run Creek respectively, have been regraded to drain by sheet flow. These outlets have been physically removed or plugged as confirmed by Environmental Enforcement.

**OUTLET 101**  
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Outlet 101 discharges metal cleaning wastewaters per 40 CFR 423.12(b)(5). Limitations are imposed. However, since the TSS and O&G limitations required by 40 CFR 423.12(b)(5) are already imposed at Outlet

**10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)**

001, imposition of the limitations at Outlet 101 in the previous permit were duplicative and prior to treatment (the metal cleaning unit does not have dedicated treatment for TSS and O&G, instead the Outlet 001 treatment system provides treatment). As such they have been removed.

**OUTLET 106**

Outlet 106 has been created to evaluate reasonable potential at Outlet 006 during discharges of low volume wastewater from plant wastewater and precipitator sumps. Samples shall be collected at the same location as Outlet 006; however, only during instances when these other wastewaters are present. Lag through the treatment system should be accounted for by the permittee. Stormwater only wastewater discharges, via the benchmark procedures in Section C.14, shall be reported via the DMRs for Outlet 006 as required by the previous permit. Based on analytical results submitted by the permittee since 2020 for the combined discharges there is a reasonable potential to exceed water quality criteria at the edge of a default mixing zone (zid=3, cmz=10, hhcmz=30) for aluminum and copper. WQBELs are imposed. Monitoring for iron, mercury, and zinc have also been imposed due to a reasonable potential to exceed water quality criteria end of pipe but not at the edge of a default mixing zone (zid=3, cmz=10, hhcmz=30) for those parameters.

Wastewater from the plant wastewater and precipitator sumps are considered process wastewater per 40 CFR 423.12(b)(3), TSS and O&G limitations have been imposed. In addition, since it is unclear the makeup of process and non-process wastewaters at this outlet, a flow inventory is required in Section B of the permit.

Only maximum limitations have been imposed since the low volume wastewater discharges infrequently and is considered non-continuous.

**11. RATIONALE FOR VARIANCE DECISIONS**

N/A

**12. DETAILED DESCRIPTION OF LOCATION OF DISCHARGE(s)**

<u>Outlet No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Receiving Stream</u>
001	39°49'20"	80°49'06"	OHIO RV
003	39°49'20"	80°49'06"	OHIO RV
005	39°50'13"	80°49'24"	OHIO RV
006	39°49'45"	80°49'15"	OHIO RV
007	39°49'33"	80°49'11"	OHIO RV
008	39°49'23"	80°49'07"	OHIO RV
011	39°49'11"	80°48'47"	FISH CK
012	39°50'18"	80°49'26"	OHIO RV
013	39°50'43"	80°49'18"	OHIO RV
014	39°50'42"	80°49'19"	OHIO RV
101	39°49'20"	80°49'06"	OHIO RV
106	39°49'45"	80°49'15"	OHIO RV

12. DETAILED DESCRIPTION OF LOCATION OF DISCHARGE(s)

<u>Outlet No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Receiving Stream</u>
201	39°49'20"	80°49'06"	OHIO RV

13. ANTIDegradation

The outlets identified in this permit are existing outlets. There are no proposed increases in (a) the volume of discharges from the existing outlets, (b) the quantity of pollutants to be discharged from the existing outlets, or (c) any increase to the existing treatment capacity of the facility. Therefore, the proposed terms and conditions in this draft will maintain and protect all existing uses of the Ohio River and Fish Creek in accordance with provisions of Tier 1 protection.

14. OTHER REQUIREMENT(s)

316(b) of the Clean Water Act

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This facility operates a cooling water intake structure potentially subject to 316(b) of the Clean Water Act. The permittee has indicated that its intake satisfies BTA requirements of 316(b) and submitted the required information in 40 CFR 122.21(r). Section D has been imposed detailing the reported requirements to satisfy Section 316(b) of the Clean Water Act.

Anti-backsliding

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Some water quality based effluent limitations were removed from Section A of the permit. These effluent limitations were based on State water quality criteria in which the instream water quality standards are currently attained (per 402(o)(1) of the Clean Water Act) and in which the revision is consistent with State anti-degradation rules (60 CSR 5). The new requirements are consistent with both federal effluent guidelines and State water quality standards (per 402(o)(3) of the Clean Water Act). Therefore, the revisions are allowed.

The State of West Virginia, Department of Environmental Protection, Division of Water and Waste Management, has made tentative decisions on the application for a State NPDES Permit listed on this Fact Sheet. In order to provide public participation on the proposed issuance of the required permit, the following information is being supplied in accordance with 47 CSR, Series 10, Section 11.3.e.2 and 3, of the West Virginia Legislative Rules.

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for a public hearing shall be made in writing and addressed to:

Director, Division of Water and Waste Management, DEP  
601 57th Street SE  
Charleston, West Virginia 25304-2345  
Attention: Lori Derrick

The request shall state the nature of the issues proposed to be raised in the hearing, and must be received within the comment period. The Director shall hold a public hearing whenever he, or she, finds, on the basis of requests, a significant degree of public interest on issues relevant to the draft permit. Any person may submit oral or written statements and data concerning the draft permit, however, reasonable limits may be set upon the time allowed for oral statements, and the submission of statements in writing may be required. A tape recording or written transcript of the hearing shall be made available to the public, upon request.

If information received during the public comment period appears to raise substantial new questions, the Director may reopen the public comment period.

All applicable information concerning the permit application and the tentative decisions is on file and may be inspected, by appointment, or copies obtained, at a nominal cost, at the offices of the Division of Water and Waste Management, 601 57th Street SE, Charleston, West Virginia 25304-2345, Monday through Friday (except State holidays) between 8:00 a.m. and 4:00 p.m.

Requests for additional information should be directed to Lori Derrick at (304) 926-0499 ext 1057.



# WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

## Mitchell Power Plant

Outlet: 001

Stream: Ohio River

Hardness (mg/l):	104	Instream Waste %:	0.25
Temperature (°C):	27	ZID:	3.0
pH:	7.7	CMZ:	10.0
Stream 1Q10 (CFS):	NA	HH CMZ:	30.0
Stream 7Q10 (CFS):	5800	HHA 1/2 Mile Rule CMZ:	30.0
Effluent Flow (MGD):	9.5		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Aluminum	NA	0.5066	Yes	Yes	0.5758	1.2367	Tier 1
Ammonia	NA	0.0400	Yes	No	Monitor	Monitor	Tier 1
Antimony	NA	0.0001	No	No	Monitor	Monitor	Tier 1
Arsenic	NA	0.0007	Yes	No	Monitor	Monitor	Tier 1
Chloride	NA	26	Yes	No	Monitor	Monitor	Tier 1
Hexavalent Chromium	NA	0.0013	Yes	No	Monitor	Monitor	Tier 1
Copper	NA	0.0021	Yes	Yes	0.0160	0.0393	Tier 1
Iron	NA	0.8610	Yes	No	Monitor	Monitor	Tier 1
Lead	NA	0.0010	No	No	Monitor	Monitor	Tier 1
Mercury	NA	0.00000255	Yes	No	Monitor	Monitor	Tier 1
Nitrate (as Nitrate-N)	NA	0.8000	No	No	Monitor	Monitor	Tier 1
Nitrite (as Nitrite-N)	NA	0.8000	Yes	No	Monitor	Monitor	Tier 1
Selenium	NA	0.00052	Yes	Yes	0.03807	0.07151	Tier 1
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
Zinc	NA	0.007	No	No	Monitor	Monitor	Tier 1
Sulfate	NA	55.80	Yes	No	Monitor	Monitor	Tier 1
WET - Ceriodaphnia Dubia	NA	NA	Yes	Yes	0.5439	0.9000	Tier 1
WET - Pimephales Promelas	NA	NA	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	No
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

**WATER QUALITY BASED EFFLUENT LIMITATIONS**

v 10.2

**Mitchell Power Plant****Outlet: 001****Stream: Ohio River**

Hardness (mg/l):	104	Instream Waste %:	0.35
Temperature (°C):	27	ZID:	1.0
pH:	7.7	CMZ:	1.0
Stream 1Q10 (CFS):	NA	HH CMZ:	1.0
Stream 7Q10 (CFS):	6700	HHA 1/2 Mile Rule CMZ:	1.0
Effluent Flow (MGD):	15.2		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Beryllium	NA	NA	No	No	Monitor	Monitor	Tier 1
Thallium	NA	NA	No	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	No
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

# WATER QUALITY BASED EFFLUENT LIMITATIONS

## Mitchell Power Plant

Outlet: 001

version 4.0

Stream: Ohio River

Stream 1Q10 (CFS):	0	Instream Waste %:	100.00
Stream 7Q10 (CFS):	5880	ZID:	3.0
Effluent Flow (MGD):	9.5	CMZ:	10.0

PARAMETER	Stream Background (F)	End of Pipe WQC RP	RWC WQC RP	Ave Mon (F)	Max Daily (F)
May (Temp Max)	60.5	Yes	No	Monitor	Monitor
June (Temp Max)	71.1	Yes	No	Monitor	Monitor
July (Temp Max)	78.8	Yes	No	Monitor	Monitor
August (Temp Max)	78.0	Yes	No	Monitor	Monitor
September (Temp Max)	72.7	Yes	No	Monitor	Monitor
October (Temp Max)	65.3	Yes	No	Monitor	Monitor

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to Kanawha River:	No
Outfall discharges to KNB, KN-60, KNE, KN, KG, or KNG:	No
Outfall discharges to a Trout Stream:	No

Mitchell Power Plant -- WV0005304  
 Outlet 001 - Effluent Guideline Limitation (Combined Wastewater Treatment System)  
 Subject to Federal Effluent Guideline 40 CFR 423 Steam Electric Power Generation

	Avg Flow mgd	Max Flow mgd	Avg TSS mg/l	Max TSS mg/l	Pre-BA Pond Avg TSS lbs/day	Pre-BA Pond Max TSS lbs/day	Removal Efficiency	Outlet 001 Avg TSS lbs/day	Outlet 001 Max TSS lbs/day
Non-process	1.578782085	3.578565233			0.0	0.0	0.91	0.00	0.00
Coalpile	0	0							
LVW	3.013189765	4.415644938							
Bottom Ash	0.619947375	0.876672342							
FGD / CCR	0.448080776	0.609117486							

40 CFR 423.12 (BPT)							
Avg O&G mg/l	Max O&G mg/l	Avg TSS mg/l	Max TSS mg/l	Avg O&G lbs/day	Max O&G lbs/day	Avg TSS lbs/day	Max TSS lbs/day
Non-Process							
Coalpile			50				0
LVW	15	20	30	377.0	736.5	753.9	3683
Bottom Ash	15	20	30	77.6	146.2	155.1	731
FGD / CCR	15	20	30	56.1	101.6	112.1	508
Regulated Wastestreams				510.6	984.4	1021.1	4921.8
Unregulated Wastewater Credit						0.0	0.0

Outlet 001			
	TSS	O&G	
Total Avg Flow	5.66	5.66	mgd
Total Avg Allowable	1021.1	510.6	lbs/day
<b>Total Avg Allowable</b>	<b>21.6</b>	<b>10.8</b>	<b>mg/l</b>
Total Max Flow	9.48	9.48	mgd
Total Max Allowable	4922	984	lbs/day
<b>Total Max Allowable</b>	<b>62.3</b>	<b>12.5</b>	<b>mg/l</b>

Mitchell Power Plant -- WV0005304

Outlet 001 - Effluent Guidline Limitation (Combined Wastewater Treatment System)

Subject to Federal Effluent Guideline 40 CFR 423 Steam Electric Power Generation

Post BAP conversion to Wastewater Complex

	Avg Flow mgd	Max Flow mgd	Avg TSS mg/l	Max TSS mg/l	Pre-BA Pond Avg TSS lbs/day	Pre-BA Pond Max TSS lbs/day	Removal Efficiency	Outlet 001 Avg TSS lbs/day	Outlet 001 Max TSS lbs/day
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Non-process

3.582669431

5.91371725

0.0

0.0

0.91

0.00

0.00

Coalpile

0

0

LVW

1.760014955

2.999810887

Bottom Ash

0

0

FGD / CCR

0.317315613

0.566471863

40 CFR 423.12 (BPT)

Avg O&G mg/l	Max O&G mg/l	Avg TSS mg/l	Max TSS mg/l	Avg O&G lbs/day	Max O&G lbs/day	Avg TSS lbs/day	Max TSS lbs/day
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Non-Process

Coalpile

15

20

30

50

220.2

500.4

440.4

0

2502

Bottom Ash

15

20

30

100

0.0

0.0

0.0

0

FGD / CCR

15

20

30

100

39.7

94.5

79.4

472

Regulated Wastestreams

259.9

594.9

519.7

2974.3

Unregulated Wastewater Credit

0.0

0.0

Outlet 001

TSS

O&G

Total Avg Flow

5.66

5.66

mgd

Total Avg Allowable

519.7

259.9

lbs/day

**Total Avg Allowable**

**11.0**

**5.5**

**mg/l**

Total Max Flow

9.48

9.48

mgd

Total Max Allowable

2974

595

lbs/day

**Total Max Allowable**

**37.6**

**7.5**

**mg/l**

Mitchell Power Plant -- WV0005304

Outlet 001 - Effluent Guideline Limitation (Combined Wastewater Treatment System)

Subject to Federal Effluent Guideline 40 CFR 423 Steam Electric Power Generation

Existing Outlet 001 Influent Loadings					
Avg Flow mgd	Max Flow mgd	Avg TRC mg/l	Max TRC mg/l	Avg TRC lbs/day	Max TRC lbs/day

Non-Process	1.130701309	1.598933402			
Coalpile	0	0			
LVW	3.013189765	4.415644938			
Bottom Ash	0.619947375	0.876672342			
FGD / CCR	0.448080776	0.609117486			
Blowdown	0.448080776	1.979631831			

40 CFR 423.12 (BAT)			
Avg TRC mg/l	Max TRC mg/l	Avg TRC lbs/day	Max TRC lbs/day

Non-process				
Coalpile				
LVW				
Bottom Ash				
FGD / CCR				
Blowdown	0.2	0.5	0.7	8
Regulated Wastestreams			0.7	8.3
Unregulated Wastewater Credit			0.0	0.0

Outlet 001

	TRC
Total Avg Flow	5.66
Total Avg Allowable	0.7
<b>Total Avg Allowable</b>	<b>0.016</b>
Total Max Flow	9.48
Total Max Allowable	8
<b>Total Max Allowable</b>	<b>0.104</b>

Mitchell Power Plant -- WV0005304

Outlet 001 - Effluent Guideline Limitation (Combined Wastewater Treatment System)

Subject to Federal Effluent Guideline 40 CFR 423 Steam Electric Power Generation

Post BAP conversion to Wastewater Complex

Existing Outlet 001 Influent Loadings					
Avg Flow mgd	Max Flow mgd	Avg TRC mg/l	Max TRC mg/l	Avg TRC lbs/day	Max TRC lbs/day

Non-Process	0.80072433	1.307242761			
Coalpile	0	0			
LVW	1.760014955	2.999810887			
Bottom Ash	0	0			
FGD / CCR	0.317315613	0.566471863			
Blowdown	2.781945101	4.606474489			

40 CFR 423.12 (BAT)			
Avg TRC mg/l	Max TRC mg/l	Avg TRC lbs/day	Max TRC lbs/day

Non-process				
Coalpile				
LVW				
Bottom Ash				
FGD / CCR				
Blowdown	0.2	0.5	4.6	19
Regulated Wastestreams			4.6	19.2
Unregulated Wastewater Credit			0.0	0.0

**Outlet 001**

	TRC
Total Avg Flow	5.66
Total Avg Allowable	4.6
<b>Total Avg Allowable</b>	<b>0.098</b>
Total Max Flow	9.48
Total Max Allowable	19
<b>Total Max Allowable</b>	<b>0.243</b>

# WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

## Mitchell Power Plant

Outlet: 106 (006)

Stream: Ohio River

Hardness (mg/l):	104	Instream Waste %:	0.25
Temperature (°C):	27	ZID:	3.0
pH:	7.7	CMZ:	10.0
Stream 1Q10 (CFS):	NA	HH CMZ:	30.0
Stream 7Q10 (CFS):	5800	HHA 1/2 Mile Rule CMZ:	30.0
Effluent Flow (MGD):	9.5		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Aluminum	NA	0.5066	Yes	Yes	0.6165	1.2367	Tier 1
Antimony	NA	0.0001	No	No	Monitor	Monitor	Tier 1
Arsenic	NA	0.0007	No	No	Monitor	Monitor	Tier 1
Hexavalent Chromium	NA	0.0013	No	No	Monitor	Monitor	Tier 1
Copper	NA	0.0021	Yes	Yes	0.0196	0.0393	Tier 1
Iron	NA	0.8610	Yes	No	Monitor	Monitor	Tier 1
Mercury	NA	0.00000255	Yes	No	Monitor	Monitor	Tier 1
Nickel	NA	0.003	No	No	Monitor	Monitor	Tier 1
Selenium	NA	0.00052	No	No	Monitor	Monitor	Tier 1
Zinc	NA	0.007	Yes	No	Monitor	Monitor	Tier 1
Sulfate	NA	55.80	No	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	No
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No



Mitchell Power Plant -- WV0005304

Outlet 201 - Effluent Guideline Limitation (Combined Wastewater Treatment System)

Subject to Federal Effluent Guideline 40 CFR 423 Steam Electric Power Generation

Post FGD Treatment Upgrade

FGD Flows<sup>e</sup>  
CCR Flows<sup>e</sup>

Avg	Max
mgd	mgd
0.648	0.73872
0.144	0.16

		Avg Arsenic ug/l	Avg Mercury ng/l	Avg Nitrogen <sup>b</sup> mg/l	Avg Selenium ug/l	Max Arsenic ug/l	Max Mercury ng/l	Max Nitrogen <sup>b</sup> mg/l	Max Selenium ug/l
Final Limits Outlet 201 (post 2025) <sup>a</sup>		8	34	3	29	18	103	4	70
CCR Existing Concentrations <sup>c</sup>		74.03	2.57	11.1	359.2	111.0	3.9	16.7	538.8
Final Limits Outlet 201 (post 2025)	lbs/day	0.0432	1.837E-04	16.2130	0.1567	0.1109	6.346E-04	24.6437	0.4313
Future BioReactor Leachate Influent	lbs/day	0.0889	3.086E-06	13.3307	0.4314	0.1520	5.278E-06	22.7954	0.7377
ELG Model Treatment Removal Efficiency <sup>d</sup>	%	96.3	99.9	98.7	99.2	96.3	99.9	98.7	99.2
Future BioReactor Leachate Effluent	lbs/day	0.0033	3.086E-09	0.1733	0.0035	0.0056	5.278E-09	0.2963	0.0059
Adjusted FGD Limitations	lbs/day	0.046524	1.837E-04	16.386259	0.160176	0.116522	6.346E-04	24.9400397	0.437166
Adjusted FGD Limitations	mg/l	0.007043	2.782E-05	2.4807818	0.02425	0.015474	8.427E-05	3.31208182	0.058056
Final Limits Outlet 201 (post 2025)		<b>7.0</b>	<b>27.8</b>	<b>2.5</b>	<b>24.2</b>	<b>15.5</b>	<b>84.3</b>	<b>3.3</b>	<b>58.1</b>

<sup>a</sup> 40 CFR 423.13(g)(1)(i)

<sup>b</sup> Nitrate + Nitrite Nitrogen

<sup>c</sup> Coal Combustion Residuals (landfill leachate) - characteristics provided by permittee

<sup>d</sup> Supplemental Technical Development Document - Steam Electric Reconsideration Rule

<sup>e</sup> FGD avg flows provided in 2021 Permit Application Update / CCR Flows from Future Conditions (2025) flow diagram